BASELINE – 10/11/12 and 10/17/12
DAILY AIR MONITORING SUMMARY REPORT

1.0 Introduction

The Jewett White Lead Site (the Site) located at 2000-2012 Richmond Terrace, in the Borough of Staten Island, Richmond County, New York; consists of an approximately one acre overgrown lot with known lead contamination as the result of lead paint manufacturing on site from 1839 to 1898. The United States Environmental Protection Agency (EPA) with support from Emergency Rapid Response Services (ERRS) and the Removal Support Team 2 (RST 2) has initiated a Removal Action at the site beginning on October 22, 2012.

The following daily air monitoring summary report is for site background concentration levels prior to initiation of Removal Action activities conducted on Thursday, October 11, 2012 and Wednesday, October 17, 2012.

1.1 Air Sampling/Monitoring Methodology:

In order to assess for background particulate concentrations generated from street activities surrounding the Site, air sampling and monitoring activities were conducted along the Site's perimeter fence. On Thursday, October 11, 2012, air samples were collected at five air stations (3 downwind, 2 upwind) and analyzed for lead. The air sample results will be compared to the site-specific action level for lead in dust of 0.015 micrograms per meter cubed (mg/m^3).

On Wednesday, October 17, 2012, particulate and volatile organic compound (VOC) monitoring was conducted at three air stations at the properties fence line (2 downwind, 1 upwind) using with Dust Trak® units to monitor PM 10 sized dust particles and AreaRAEs measuring VOCs in parts per million (PPM). The site-specific action level for overall particulates is 0.063 mg/m^3 from background concentration.

2.0 Daily Site Information

2.1 Weather Conditions

On Thursday, October 11, 2012, the following weather conditions were observed: an average temperature of 54^0F, 54% humidity, with winds at 11 mph from the Southwest direction with gust speeds of 24 mph. The last rain event occurred on Monday, October 15, 2012. On Wednesday, October 17, 2012, the following weather conditions were observed: an average temperature of 60^0F, 47% humidity, with winds at 3mph from the West, Southwest direction.

2.2 Removal Activities

No intrusive site activities were conducted during baseline air sampling and monitoring.

3.0 Air Monitoring Summary

Table 3-1 Air Station Information Table

Station No.	Location	Upwind/ Downwind	Date	Start Time	Stop Time	Monitoring Equipment
01	Park Ave	Upwind	10/17/12	10:15	16:15	Dust Trak/AreaRAE
02	Richmond Terrace	Downwind	10/17/12	10:25	16:25	Dust Trak/AreaRAE
03	Richmond Terrace	Downwind	10/17/12	10:35	16:35	Dust Trak/AreaRAE
04	Railroad Terrace	NA	NA	NA	NA	NA
05	Park Ave	NA	NA	NA	NA	NA
06	Not established	NA	NA	NA	NA	NA

NA – Not applicable; these stations were not established during this monitoring event.

3.1 Particulate Monitoring Results:

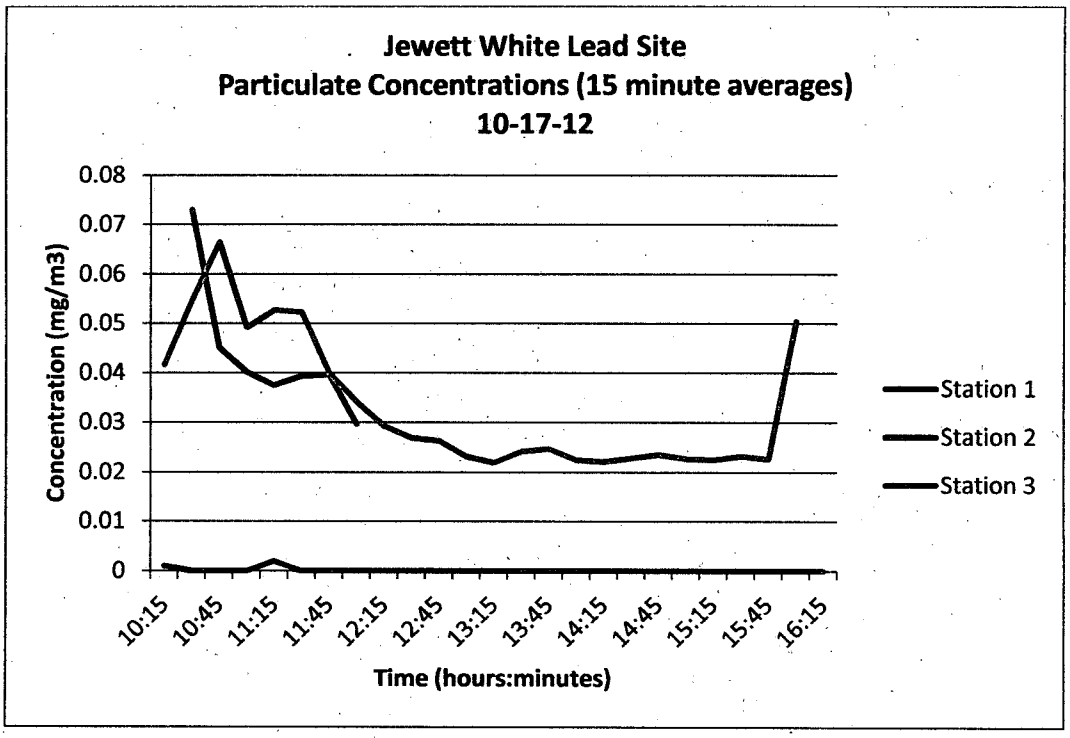
Baseline particulate monitoring was conducted on Wednesday, October 17, 2012 for approximately 6 hours at three air stations to determine off site particulate levels. Along Richmond Terrace in the morning, the particulate concentrations exceeded the site-specific action level of 0.063 mg/m^3 over a 15 minute duration. Along Park Ave, there were no significant particulate concentrations. Refer to Table 3-2 below for the daily average, minimum, maximum and 8 hour time weighted average (TWA) concentrations and Figure 1 on the following page for 15 minute average concentration levels.

Table 3-2: Dust Trak Particulate Summary Table

Station No.	Monitoring Time	Daily Average mg/m^3	Daily Minimum mg/m^3	TWA mg/m^3	15 minute maximum	
					mg/m^3	Time
01	10:15 – 16:15	0.000	0.000	0.000	0.002	11:15 – 11:30
02	10:25 – 16:25*	0.040	0.016	0.008	0.073	10:30 – 10:45
03	10:35 – 16:35	0.033	0.019	0.025	0.066	10:45 – 11:00

*Station 2 was monitoring but did not log data past 1200 hrs.

Figure 1. Particulate Concentration Graph



3.2 VOC Monitoring Results:

[Will be included by Tuesday 10/23/12]

4.0 Air Sampling Summary

Table 4-1: Air Sample Collection Table

Station No.	Sample ID	CLP No.	Container	Analysis	Sample Duration			
					Start Date - Time		Stop Date - Time	
01	AA001-101112-001	MBAJ01	MCE Cassette	Total Lead, ISMO1.3	10/11/12	10:35	10/11/12	16:38
02	AA002-101112-001	MBAJ02				10:45		16:45
03	AA003-101112-001	MBAJ03				11:00		16:53
04	AA004-101112-001	MBAJ04				11:10		17:15
05	AA005-101112-001	MBAJ05				11:30		17:30
06	NA	NA				NA		NA

4.1 Dispatch Data

On October 13, 2012, RST 2 shipped seven air samples, including one field blank and one lot blank via FedEx under Airbill No. 898701973246 to Contract Laboratory Program (CLP) Lab ChemTech Consulting Group in Mountainside, NJ in a cooler on ice under Chain of Custody Record Number 2-101212-104218-0001.

4.2 Air Sampling Analytical Results*

Station 1: The analytical result was below the detection limit of 0.10 µg at an estimated concentration of 0.02 µg J with a TWA of 0.000017 mg/m^3 compared to the action level of 0.015 mg/m^3.

Station 2: The analytical result was non-detect for total lead.

Station 3: The analytical result was non-detect for total lead.

Station 4: The analytical result was below the detection limit of 0.10 µg at an estimated concentration of 0.02 µg J with a TWA of 0.000016 mg/m^3 compared to the action level of 0.015 mg/m^3.

Station 5: The analytical result was below the detection limit of 0.10 µg at an estimated concentration of 0.03 µg J with a TWA of 0.000026 mg/m^3 compared to the action level of 0.015 mg/m^3.

***This data is for screening purposes only and has not been validated.**